9/7/21

Test Papers / CELL The unit of Life Albio Abrahams
XI K
Biology

1) 52% proteins
40% lipids

2) tubulin

3) Middle lamella

4) Cytoskeleton is a proteinaceous structure which helps in motility, maintenance of the cell shape of the cell and mechanical support

5) RER and SER are the stands for Rough endoplasmic reticulum it bears ribosomes which is essential for protein synthesis

SER stands for smooth endoplasmic reticulum
It is the site of production of lipids like steroid hormones in animals It doesn't have ribosomes attached to it So it is smooth

6) Chloroplast is the pig green coloured pigments seen only in plants
They are found in mesophyll cells of the plant
They are less shaped oval and spherical in structure
It length is 5-10μm and width 2-4μm
The number of cells differs from 1 to 20 to 40 per cell
It consist of of two inner and outer membrane
e Inner membrane is less permeable and the

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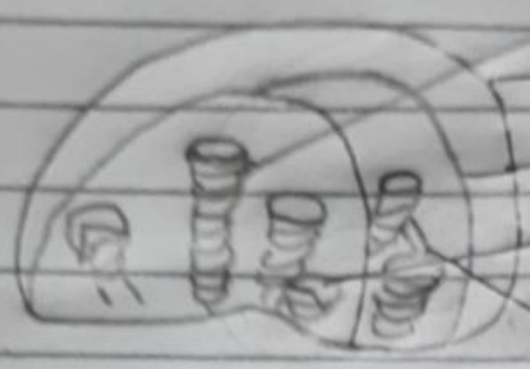
space limited by the membrane is called stroma
It has membranes also called thylakoids
and thylakoids are arranged in stack called
grana or intergranal thyla koids



	Prokaryotic cell	Eukaryotic cell
*	Presence of nuclear membrane	Presence of plasma membrane
	Absence of true nucleus	A well defined nucleus is present
*	Cell organelles are not surrounds by a well defined membrane	Cell organelles are bounded by a membrane
*	Ribosome in prokaryotic cells is 70S	Ribosomes in eukaryotic cell is 80S

ii) Plasma membrane is the outer covering of the cell which allows only the entry of selected only some essential substances. Neutral solutes moves through the plasma membrane by diffusion. Polar molecules cannot access the plasma membrane by diffusion. They either are transported into the plasma membrane by carriers proteins and this process is called facilitated

Diffusion

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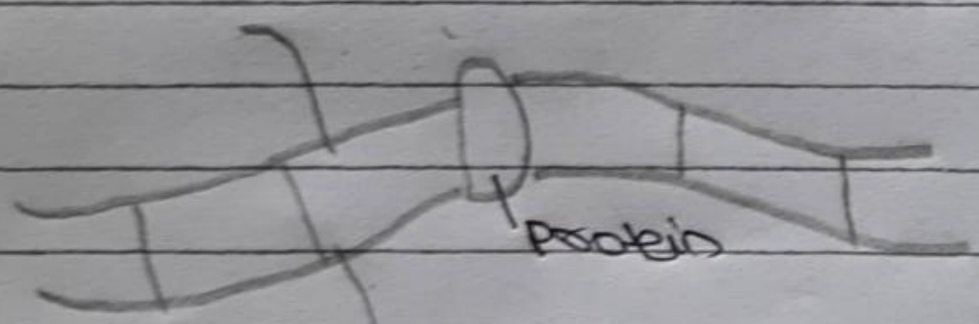
8) 9+0 array is best present in centrioles
The centrioles are made up of nine evenly spaced fibrils of tubulin protein Each of the peripheral fibrils is a triplet The central part of the centriole is called hub which is made up of protein which is connected with tubules of peripheral triplets, by radial spoke made up of protein The centriole forms basal body of cilia and flagella

9) Protein icebergs in sea of lipids refers to plasma membrane because the proteins are spread in the cell membrane like icebergs in sea The quasi fluid nature of lipid allows lateral movement of proteins within overall bilayer. Proteins are either totally buried in membrane or present in the surface of the membrane The lipids can move freely as with the lipid bilayer like icebergs in sea



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